

WHAT IS CLAIMED IS:

1. A full dull polyamide 6 yarn, which contains 1.5 to 2.5% by weight of titanium dioxide relative to the weight of the yarn, which has 35 to 95 titanium dioxide particles having a major axial length of greater than 5µm being contained in 50mg of the yarn, and which contains 0.1 to 0.5% by weight of phosphate salt (wetting agent) relative to the weight of titanium dioxide.
2. A process for preparing a full dull polyamide 6 yarn, in which the full dull polyamide 6 yarn is produced by preparing titanium dioxide slurry through wetting, grinding, concentration correcting, sedimentation and storage processes and applying the same during the process of polyamide 6 polymerization, wherein 0.1 to 0.5% by weight of phosphate salt relative to the weight of titanium dioxide is added as a wetting agent, caprolactam is applied along with water upon concentration correction, and naphthalene sulfonate based salt is applied along with titanium dioxide slurry during the process of polyamide 6 polymerization.
3. The process of claim 2, wherein the input of caprolactam is 25 to

35% by weight relative to the weight of the titanium dioxide slurry.

4. The process of claim 2, wherein the input of naphthalene sulfonate based salt is 30 to 60cc per 1kg of titanium dioxide particles.